

## Gulf of Mexico Harmful Algal Bloom Bulletin

5 January 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: January 3, 2007

### Conditions Report

A harmful algal bloom has been identified in patches from southern Sarasota to Collier Counties and in Monroe County, north and west of the Keys. For tomorrow and Sunday: very low impacts are possible for southern Sarasota and northern Collier Counties, and patchy low impacts are possible for Charlotte and Lee Counties. No other impacts are expected today through Sunday throughout the identified bloom region.

### Analysis

The bulletins this week have been issued on Wednesday and Friday instead of Monday and Thursday due to federal government closure for New Year's Day on Monday and in remembrance of former President Gerald R. Ford on Tuesday. The next bulletin will be issued on Monday January 8, 2007.

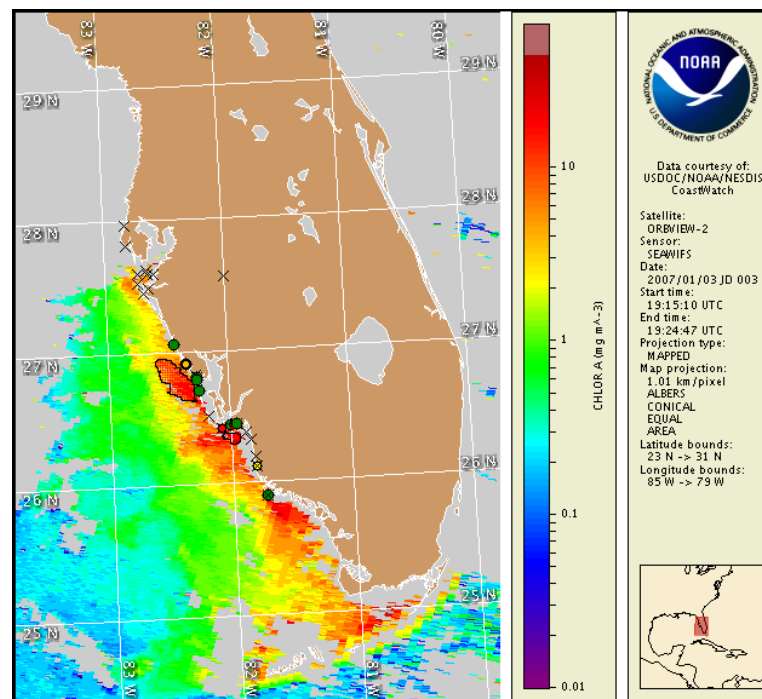
A harmful algal bloom persists in patches from southern Sarasota to Collier Counties. FWRI reported "low b" levels of *K. brevis* at Lee County Lighthouse Beach on January 3, and "low a" levels at Englewood Beach on January 2. Imagery from January 3 indicates chlorophyll levels greater than  $15 \mu\text{g/L}$  west of Charlotte Harbor around  $26^{\circ}42'N$   $82^{\circ}20'W$ . This imagery also indicates chlorophyll levels greater than  $20 \mu\text{g/L}$  south of Cape Romano around  $25^{\circ}45'N$   $81^{\circ}37'W$ . Sampling is recommended. Weak northward alongshore transport is possible through Sunday.

In the Florida Keys region, chlorophyll levels are elevated offshore to the northwest. Imagery from January 3 indicates chlorophyll levels greater than  $10 \mu\text{g/L}$  around  $24^{\circ}44'N$   $81^{\circ}51'W$ . Sampling is recommended.

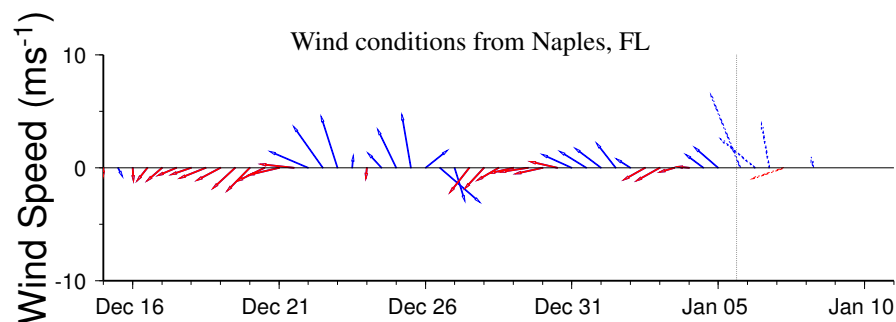
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Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



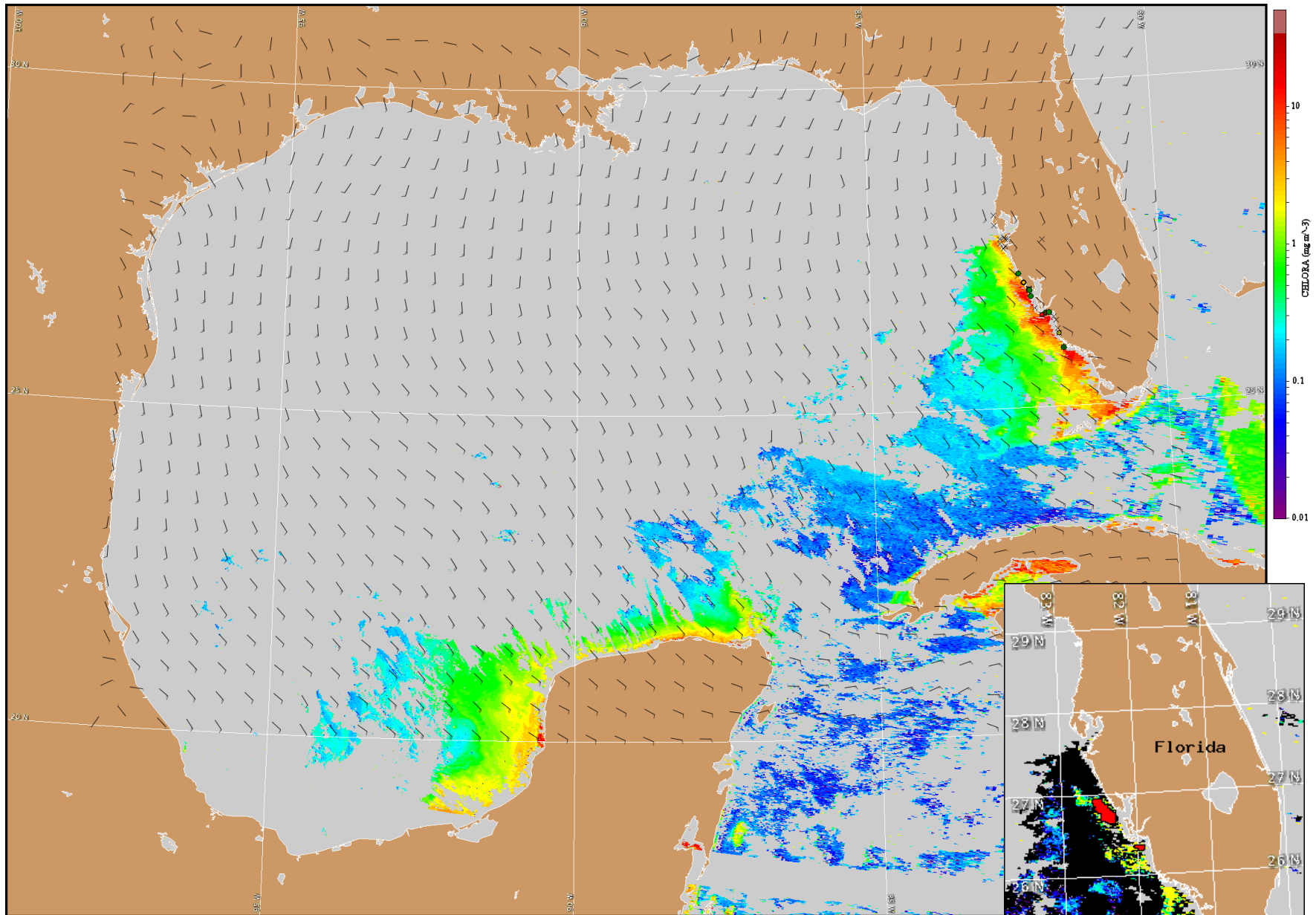
Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration categories and corresponding cell count values from Florida Fish and Wildlife Research Institute. For a key to the cell concentration descriptions, visit <http://research.myfwc.com>. Cell concentration sampling data from December 26-January 4 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Winds will be southeast (15 kts, 8 m/s) today, south (10 kts, 5 m/s) tomorrow and Sunday.

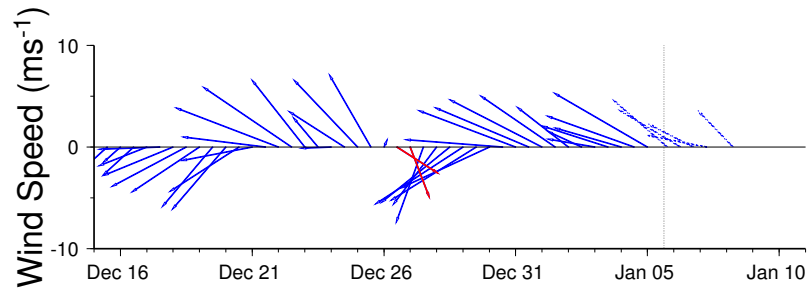
Lower Keys: Winds will be southeast (15 kts, 8 m/s) today, east to southeast (10 kts, 5 m/s) tomorrow, east (15 kts, 8 m/s) Sunday.



Satellite chlorophyll image and forecast winds for January 6, 2007 12Z with cell concentration sampling data from December 26-January 4 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Sand Key, FL



Wind conditions from Venice Pier, FL

